

DERWENT-ACC-NO: 1985-128628

DERWENT-WEEK: 198522

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TITLE: Prodn. of activated carbon adsorbent  
from brown coal - with increased meso-pore content by  
addn. of heavy metal salt before thermal activation

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PATENT-FAMILY:

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INT-CL (IPC): C01B031/10

ABSTRACTED-PUB-NO: DD 218075A

BASIC-ABSTRACT:

Prodn. of activated carbon from brown coal high-temp. coke comprises: (i) treatment of the coke with a 3-15 (pref. 5-10) wt.% soln. of the salt of a heavy metal (pref. Fe(II), Fe(III), Ni or Co); and (ii) activation by heating to 850-1000 deg.C e.g. in steam. The aq. soln. of the heavy metal salt may be

sprayed onto the coke, and the mixt. intensively mixed before being activated.

USE/ADVANTAGE - The prod. can be used for purifcn. of water and air. As a result of step (i), the prod. contains, in addn. to a well-formed micropore system, a pronounced mesopore system by which larger mols. are transported more rapidly to the sorption centres. A pronounced meso- and macropore system is necessary in special carbons for purifcn. of dye-contg. water or removal of organic impurities in the foodstuffs industry.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE ACTIVATE CARBON ADSORB BROWN COAL  
INCREASE MESO PORE  
CONTENT ADD HEAVY METAL SALT THERMAL ACTIVATE

DERWENT-CLASS: E36 H09 J01

CPI-CODES: E31-N03; J01-D01; J01-E02B; J01-E03;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

C106 C810 M411 M720 M903 M910 N515 Q231 Q418 Q508  
R032

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1669P; 1939S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-055975